

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051163

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04R7/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/51201 A (NEW TRANSDUCERS LTD ; BOWN RUSS (GB)) 27 June 2002 (2002-06-27) abstract; figures 1,3,4 page 2, line 17 - page 4, line 24 page 5, line 7 - line 11 page 6, line 28 - page 7, line 6 page 8, line 15 - page 9, line 6 page 10, line 28 - page 12, line 3	1-16
X	WO 02/41287 A (TALKSIGN LTD ; BEADMAN MICHAEL ANDREW (GB); JOHN DAVID ARTHUR VAUGHN ( ) 23 May 2002 (2002-05-23) abstract; figures 1-8 paragraph '0003! - paragraph '0018! ----- -/--	1-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

15 December 2004

Date of mailing of the international search report

23/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Timmers, O

# INTERNATIONAL SEARCH REPORT

ai Application No  
PCT/IB2004/051163

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 2003/068056 A1 (AUBAUER ROLAND ET AL) 10 Apr11 2003 (2003-04-10) abstract; figures 2,3 paragraph '0001! paragraph '0006! - paragraph '0009! paragraph '0011! paragraph '0014! - paragraph '0022! paragraph '0025!</p> <p style="text-align: center;">-----</p>	1-16
A	<p>US 5 828 768 A (EATWELL GRAHAM P ET AL) 27 October 1998 (1998-10-27) cited in the application column 4, line 36 - column 7, line 58; figures 1-9,11</p> <p style="text-align: center;">-----</p>	1-16
A	<p>US 2002/171636 A1 (JOHNSON MARK THOMAS ET AL) 21 November 2002 (2002-11-21) cited in the application figures 1-9</p> <p style="text-align: center;">-----</p>	
A	<p>WO 01/41498 A (NEW TRANSDUCERS LTD ; BUOS ANDREAS (GB)) 7 June 2001 (2001-06-07) abstract; figure 1 page 2, line 16 - page 3, line 15 page 3, line 27 - page 5, line 26</p> <p style="text-align: center;">-----</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Int'l Application No

PCT/IB2004/051163

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0251201	A	27-06-2002	AU 2225802 A WO 0251201 A2 GB 2385409 A TW 532043 B US 2002075135 A1	01-07-2002 27-06-2002 20-08-2003 11-05-2003 20-06-2002
WO 0241287	A	23-05-2002	GB 2369232 A AU 2381002 A CA 2429072 A1 EP 1384224 A2 WO 0241287 A2 US 2004075573 A1	22-05-2002 27-05-2002 23-05-2002 28-01-2004 23-05-2002 22-04-2004
US 2003068056	A1	10-04-2003	EP 1301012 A1	09-04-2003
US 5828768	A	27-10-1998	CA 2188536 A1 EP 0760996 A1 JP 9506189 T WO 9531805 A1	23-11-1995 12-03-1997 17-06-1997 23-11-1995
US 2002171636	A1	21-11-2002	EP 1386519 A2 WO 02082858 A2 JP 2004519739 T	04-02-2004 17-10-2002 02-07-2004
WO 0141498	A	07-06-2001	AU 2186401 A CN 1390429 T EP 1234478 A2 WO 0141498 A2 US 2001040976 A1	12-06-2001 08-01-2003 28-08-2002 07-06-2001 15-11-2001